SEFA

# CONTAINS NO CBI

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Comprehensive Assessment Information Rule
REPORTING FORM

When completed, send this form to:

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U.S. Environmental Protection Agency
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EPA Form 7710-52

<u> </u>		SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION
PART	A 0	ENERAL REPORTING INFORMATION
1.01	Thi	s Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
CBI	con	npleted in response to the <u>Federal Register</u> Notice of [O]   [7]   [7]   [8]   9  mo. day year
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No [0]0]5]동]4]-[호]내-[호]
	b.	If a chemical substance CAS No. is not provided in the Federal Register, list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the Federal Register.
		(i) Chemical name as listed in the rule Not Applicable
		(ii) Name of mixture as listed in the rule Not Applicable
		(iii) Trade name as listed in the rule Dot Applicable
••	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule Not Applicable
		CAS No. of chemical substance [_]_]_]_]_]_]_]_]_[]_[]
		Name of chemical substance
1.02	Ide	ntify your reporting status under CAIR by circling the appropriate response(s).
CBI	Man	ufacturer 1
[_]	Imp	orter
	Pro	cessor

_1	Importer	2
	Processor	Q
	X/P manufacturer reporting for customer who is a processor	4
	X/P processor reporting for customer who is a processor	5

 $[\ \ ]$  Mark (X) this box if you attach a continuation sheet.

<b>1</b> ♠3	Does the substance you are reporting on have an " $x/p$ " designation associated with it in the above-listed Federal Register Notice?				
CBI [_]	Yes Go to question 1.04				
\!	No				
1.04	a. Do you manufacture. import, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response.				
<u>CBI</u>	Yes				
	No				
	[] You have chosen to notify your customers of their reporting obligations				
	Provide the trade name(s) Not Applicable				
••	[] You have chosen to report for your customers				
	You have submitted the trade name(s) to EPA one day after the effective date of the rule in the <u>Federal Register</u> Notice under which you are reporting.				
1.05	If you buy a trade name product and are reporting because you were notified of your reporting requirements by your trade name supplier, provide that trade name.				
CBI	Trade name Not Applicable				
11	Is the trade name product a mixture? Circle the appropriate response.				
	Yes 1				
	No 2				
1.06	Certification The person who is responsible for the completion of this form must sign the certification statement below:				
( <u></u> ]	"I hereby certify that, to the best of my knowledge and belief, all information entered on this form is complete and accurate."  Robert W. Hardy  NAME  SIGNATURE  DATE SIGNED				
Group	Manager, Environnental (602) 441-2944 TELEPHONE NO.				
[_]	Mark (X) this box if you attach a continuation sheet.				

<u>CBI</u>	Exemptions From Reporting — If you have provided EPA or another Federal agency with the required information on a CAIR Reporting Form for the listed substance within the past 3 years, and this information is current, accurate, and complete for the time period specified in the rule, then sign the certification below. You are required to complete section 1 of this CAIR form and provide any information now required but not previously submitted. Provide a copy of any previous submissions along with your Section 1 submission.				
	information which I have not	ne best of my knowledge and belief, included in this CAIR Reporting For s and is current, accurate, and con	rm has been submitted		
	NAME	SIGNATURE	DATE SIGNED		
		( )			
	TITLE	TELÉPHONE NO.	DATE OF PREVIOUS SUBMISSION		
1.08	certify that the following st those confidentiality claims  "My company has taken measure and it will continue to take been, reasonably ascertainabl using legitimate means (other a judicial or quasi-judicial information is not publicly a	ave asserted any CBI claims in this atements truthfully and accurately which you have asserted.  It is to protect the confidentiality of these measures; the information is elemented by other persons (other than government than discovery based on a showing proceeding) without my company's covailable elsewhere; and disclosure to my company's competitive positions.	f the information, not, and has not ernment bodies) by of special need in onsent; the of the information		
			-		
	NAME	SIGNATURE	DATE SIGNED		
	فستراها				
	TITLE	TELEPHONE NO.			

PART	B CORPORATE DATA
1.09	Facility Identification
CBI	Name [M]O]T]O[R]O[L]A]_]I]D[C]_]_]_]_]_]_]_]_]_]_]
[_]	Address [2]5]0]1]1]5]1P[R]1]C]E[1]R[D]1]1]1]1]1]1]1]1]1]1]1]1
	(CIHIAIDILIEIRI_ _
	[A]Z] [8]5]2]4]4][2]8]9] State
	Dun & Bradstreet Number[፲]호]-[፲]호][-[9][-[9][-[1]]
	EPA ID Number[9] [ ] [ [ 1] [ 1] [ 1] [ 1] [ 1] [ 1]
	Employer ID Number
	Primary Standard Industrial Classification (SIC) Code
•	0ther SIC Code
	0ther SIC Code
1.10	Company Headquarters Identification
<u>CBI</u>	Name [M]0 T 0 R 0 L A   D C
[_]	Address []3]0]3]   E    A  [  [0] [] [0] []   []   []   []   []
	(図1 <u>日1年1年1年1年1年1日1日1日1日1日1日1日1日1日1日1日1日1日1</u>
	[ <u>7]</u> <u>7</u> ] [ <u>6</u> ] <u>0</u> ] <u>1]][][]]] State</u>
	Dun & Bradstreet Number
	Employer ID Number

1.11	Parent Company Identification
<u>CBI</u>	Name [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	(_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
	[_]_] [_]_]_]_]_][_]]_]_]_ State
	Dun & Bradstreet Number
1.12	Technical Contact
<u>CBI</u>	
[_]	
	Address [8]21011112111101010101010101111111111111
	(3)こうアアリスリアリーリーリーリーリーリーリーリーリーリーリーリーリーリーリーリーリー
	$     \left[ \frac{A}{2} \right]    \left[ \frac{8}{5} \right]    \left[ \frac{3}{2} \right]    \left[ \frac{3}{2} \right]                                   $
	Telephone Number[조] <u>중</u> ] <u>국</u> ] - [ <u>국</u> <u>-</u> ] - [-] - [-]
1.13	This reporting year is from $[\overline{O}]\overline{I}$ $[\overline{g}]\overline{g}$ to $[\overline{I}]\overline{g}$ $[\overline{g}]\overline{g}$ Mo. Year
	,
[ ] }	Mark (X) this box if you attach a continuation sheet.

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
<u>CBI</u>	Name of Seller [ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
	$\begin{bmatrix} - \\ - \end{bmatrix} = \begin{bmatrix} - $
	Employer ID Number
	Date of Sale
	Contact Person [ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
	Telephone Number
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:  No+Applicable
CBI	Name of Buyer [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[
	[_]_] [_]_]-[_]_]_]_]_ State
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number

<u>CBI</u>	was manufactured, imported, or processed at your facility during the r	eporting yea
[_]	Classification	uantity (kg/
	Manufactured	
	Imported	
	Processed (include quantity repackaged)	1.9
	Of that quantity manufactured or imported, report that quantity:	
	In storage at the beginning of the reporting year	_NAX
	For on-site use or processing	- $NA$
	For direct commercial distribution (including export)	NA
	In storage at the end of the reporting year	-NA
	Of that quantity processed, report that quantity:	
	In storage at the beginning of the reporting year	O
	Processed as a reactant (chemical producer)	
	Processed as a formulation component (mixture producer)	O
	Processed as an article component (article producer)	1.9
	Repackaged (including export)	
	In storage at the end of the reporting year	O
7	* NA means Not Applicable	
	On means wormy	

17 I	or a component chemical. (It	t of a mixture, pr	rovide the foll position is vai	lowing informa riable, report	red to report is a mixtu ition for each component an average percentage
<u> </u>		PARTA	Suppl	lier	Average % Composition by Weigh (specify precision,
		lame	Nan	ne	$e.g., 45\% \pm 0.5\%$
	Tolorene 2,41	Diisocyanate polymer	CONAP	INC.	<15 ± NA
	TUIL Pre	polymer.	CONAP	INC.	785 ± NF
	<del></del>	-			
			·		
		-			$\frac{100 \pm NA}{\text{Total}}$
					1004
					•

[ Mark (X) this box if you attach a continuation sheet.

2.04	or processed during the 3 corporate fiscal years preceding the rep descending order.	factured, imported, orting year in
<u>CBI</u>		•
[_]	Year ending	··· []] [] [8] 7 Mo. Year
	Quantity manufactured	<i>NA</i> *k8
	Quantity imported	
	Quantity processed	<u>UK</u> kg
	Year ending	··· []]] [X]]]
	Quantity manufactured	<i>UA</i> kg
	Quantity imported	<u> </u>
	Quantity processed	UK kg
	Year ending	[7] 3 [8] 5] Mo. Year
	Quantity manufactured	NA ka
	Quantity imported	<u> </u>
	Quantity processed	
2.05 CBI	Specify the manner in which you manufactured the listed substance. appropriate process types.	Circle all
[_]	Continuous process	1
	Semicontinuous process	
	Batch process	
- <b>X</b>	NA means not Applicable	
		4.4.4
	Mark (X) this box if you attach a continuation sheet.	

2.06 CBI	Specify the manner in appropriate process ty	which you processed processes processed processed processes processed processes processed processes processed processes processed processes processes processes processed processes proces	the listed substance.	Circle all
[_]	Continuous process	••••••••	•••••	•••••• 1
	Semicontinuous process	·····		
	Batch process		•	·····
2.07 CBI	State your facility's substance. (If you arquestion.)	name-plate capacity is	for manufacturing or per or batch processor,	processing the listed do not answer this
[_]	Manufacturing capacity	·		NA * kg/yr
	Processing capacity .	•••••	- -	NA kg/yr
		**************************************	uantity of the listed	l substance
2.08 <u>CBI</u>	If you intend to incre manufactured, imported year, estimate the inc volume.	, or processed at any	' time after vour curr	ent corporate fiscal year's production
	manufactured, imported year, estimate the inc	, or processed at any rease or decrease bas Manufacturing	time after your curred upon the reporting	year's production Processing
<u>ĊBI</u>	manufactured, imported year, estimate the inc	, or processed at any rease or decrease bas	time after your curred upon the reporting  Importing  Quantity (kg)	Processing Quantity (kg)
<u>CBI</u>	manufactured, imported year, estimate the inc volume.  Amount of increase  Amount of decrease	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)  A	year's production Processing
<u>CBI</u>	manufactured, imported year, estimate the inc volume.  Amount of increase  Amount of decrease	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)  A	Processing Quantity (kg)
<u>CBI</u>	manufactured, imported year, estimate the inc volume.  Amount of increase	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)  A	Processing Quantity (kg)
<u>CBI</u>	manufactured, imported year, estimate the inc volume.  Amount of increase  Amount of decrease	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)  A	Processing Quantity (kg)
<u>CBI</u>	manufactured, imported year, estimate the inc volume.  Amount of increase  Amount of decrease	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)  A	Processing Quantity (kg)
<u>CBI</u>	manufactured, imported year, estimate the inc volume.  Amount of increase  Amount of decrease	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)  A	Processing Quantity (kg)
<u>CBI</u>	manufactured, imported year, estimate the inc volume.  Amount of increase  Amount of decrease	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)  A	Processing Quantity (kg)
<u>CBI</u>	manufactured, imported year, estimate the inc volume.  Amount of increase  Amount of decrease	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)  A	Processing Quantity (kg)
<u>CBI</u>	manufactured, imported year, estimate the inc volume.  Amount of increase  Amount of decrease	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)  A	Processing Quantity (kg)

2.09	substance duri	largest volume manufacturing or processing proces, specify the number of days you manufactured and the reporting year. Also specify the averages type was operated. (If only one or two oper	or processed	the liste
<u>CBI</u>				
[_]			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured	NAX	L)A
		Processed	153	3
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		
		Manufactured	NA	NA
		Processed	NA	NA
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured	NA	NA
		Processed	NA	NA
2.10 CBI	State the maximus ubstance that we chemical.	im daily inventory and average monthly inventor vas stored on-site during the reporting year in Required	y of the list the form of	ted a bulk
	Maximum daily in	ventory	•	kş
	Average monthly	inventory	•	
* K	JA mean	s not applicable	,	`
_1	Mark (X) this bo	x if you attach a continuation sheet.		

<u>:BI</u>	tured, importe	bstance in concentrationed, or processed. The roce from which the byproto the product (e.g., c	source of byproducts	.l percent as it cts, coproducts, as s. or impurities	is manufac- or impurities
	CAS No.	Chemical Name	Byproduct, Coproduct or Impurity <sup>1</sup>	Concentration (%) (specify ± % precision)	Source of B products, C products, o Impurities
	Use the follo  B = Byproduct C = Coproduct I = Impurity		e byproduct, copro	duct, or impurity	······································
	B = Byproduct C = Coproduct		e byproduct, copro	duct, or impurity	· :
	B = Byproduct C = Coproduct		e byproduct, copro	duct, or impurity	·:
	B = Byproduct C = Coproduct		e byproduct, copro	duct, or impurity	·:

2.12 CBI	Existing Product Types Limported, or processed using the quantity of listed substotal volume of listed subsquantity of listed substance listed under column b., and the instructions for further	g the listed su tance you use f tance used duri e used captivel the types of e	bstance during the r or each product type ng the reporting yea y on-site as a perce nd-users for each pr	eporting year. List as a percentage of the r. Also list the ntage of the value
		b. % of Quantity Manufactured, Imported, or Processed	c.  % of Quantity Used Captively On-Site	d.  Type of End-Users <sup>2</sup> H
	1			
	<pre>Use the following codes to A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accompositizer D = Inhibitor/Stabilizer/Sometic Antioxidant E = Analytical reagent F = Chelator/Coagulant/Sequency G = Cleanser/Detergent/Degrency H = Lubricant/Friction modinagent I = Surfactant/Emulsifier J = Flame retardant K = Coating/Binder/Adhesive</pre>	elerator/ cavenger/ uestrant reaser ifier/Antiwear	L = Moldable/Castab M = Plasticizer N = Dye/Pigment/Cole O = Photographic/Repand additives P = Electrodeposition Q = Fuel and fuel act R = Explosive chemical S = Fragrance/Flavor T = Pollution control U = Functional fluid V = Metal alloy and W = Rheological mode	on/Plating chemicals dditives cals and additives c chemicals ol chemicals ds and additives additives
	<sup>2</sup> Use the following codes to I = Industrial CM = Commercial	CS = Consi		<u>nmen</u> t

<u>CBI</u> [ ]	substance used during to used captively on-site types of end-users for explanation and an exam	as a percentage of each product type.	the value listed unde	r column b., and the
	Product Types <sup>1</sup>	% of Quantity Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users <sup>2</sup>
	UK	и к	<u> </u>	UK
,	Use the following codes  A = Solvent B = Synthetic reactant C = Catalyst/Initiator/ Sensitizer D = Inhibitor/Stabilize Antioxidant E = Analytical reagent F = Chelator/Coagulant/ G = Cleanser/Detergent/ H = Lubricant/Friction agent I = Surfactant/Emulsifi J = Flame retardant K = Coating/Binder/Adhe  Use the following codes  I = Industrial CM = Commercial	Accelerator/ er/Scavenger/ Sequestrant Degreaser modifier/Antiwear er sive and additives to designate the CS = Cons	L = Moldable/Castabl M = Plasticizer N = Dye/Pigment/Colo O = Photographic/Rep and additives P = Electrodepositio O = Fuel and fuel add R = Explosive chemic S = Fragrance/Flavor T = Pollution contro U = Functional fluid V = Metal alloy and W = Rheological modi X = Other (specify) type of end-users:	n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives fier

a.		ne final production tain c. The list	skd subs
		Average %	of Applica
	Final Product's	Composition of Listed Substance	Тип
Product Type <sup>1</sup>	Physical Form <sup>2</sup>	in Final Product	Type of End-Users
	-		
<sup>1</sup> Use the following coo	les to designate pro	duct types:	
A = Solvent		L = Moldable/Castable	e/Rubber and all
B = Synthetic reactar	it	M = Plasticizer	ernubber and add:
<pre>C = Catalyst/Initiato</pre>	r/Accelerator/	N = Dye/Pigment/Color	rant/Ink and add
Sensitizer		0 = Photographic/Rep	rographic chemic
D = Inhibitor/Stabili	zer/Scavenger/	and additives	- ographic chemica
Antioxidant		P = Electrodeposition	n/Plating chemic:
E = Analytical reagen	t	Q = Fuel and fuel add	ditives
F = Chelator/Coagulan	t/Sequestrant	R = Explosive chemica	als and additive
G = Cleanser/Detergen	t/Degreaser	S = Fragrance/Flavor	chemicals
H = Lubricant/Friction	n modifier/Antiwear	T = Pollution control	l chemicals
agent		U = Functional fluids	s and additives
I = Surfactant/Emulsi	fier	V = Metal alloy and a	additives
J = Flame retardant		V = Rheological modifi	fier
K = Coating/Binder/Ad	hesive and additive	s X = Other (specify)	
Use the following cod	es to designate the	final product's physic	al form:
A = Gas		stalline solid	· ·
B = Liquid	F3 = Grai	nules	
C = Aqueous solution	F4 = 0the		
D = Paste	G ≖ Gel		
E = Slurry F1 = Powder	H = Othe	er (specify)	
Use the following cod			
I = Industrial	CS = Cons		
CM = Commercial	H = 0the	er (specify)	
	•	•	

Circ list	le all applicable modes of transportation used to delivered substance to off-site customers.	bulk shipments of Applicable	the
Truc	k		. 1
Rail	car		. 2
Barg	e, Vessel		. 3
Pipe	line	• • • • • • • • • • • • • • • • • • • •	. 4
Plane	e	*******	. 5
Othe	r (specify)	••••••	. 6
or profer	repared by your customes during the reporting year for unduse listed (i-iv). Not Applicable	used by your custonse under each catego	mers
i.	Industrial Products		
	Chemical or mixture		kg/yt
	Article		kg/yr
ii.	Commercial Products	·	
	Chemical or mixture		kg/yı
	Article	1	kg/yı
iii.	Consumer Products		
	Chemical or mixture		kg/yı
	Article		kg/yı
iv.	<u>Other</u>		
	Distribution (excluding export)		kg/yr
			kg/yr
	Quantity of substance consumed as reactant		kg/yı
			kg/yı
	·		- '
	•		
Mark	•		
	list Truc Rail Barg Pipe Plan Othe  Custor prof er  i.  ii.	Ilisted substance to off-site customers.  Truck  Railcar  Barge, Vessel  Pipeline  Plane  Other (specify)  Customer Use Estimate the quantity of the listed substance or prepared by your customers during the reporting year for use find use listed (i-iv).  Category of End Use  i. Industrial Products  Chemical or mixture  Article  ii. Commercial Products  Chemical or mixture  Article  iii. Consumer Products  Chemical or mixture  Article  iv. Other  Distribution (excluding export)  Export  Quantity of substance consumed as reactant	Category of End Use  i. Industrial Products Chemical or mixture Article  ii. Commercial Products Chemical or mixture Article  iii. Consumer Products Chemical or mixture Article  iv. Other Distribution (excluding export) Export  Quantity of substance consumed as reactant Unknown customer uses

## SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

3.01 <u>CBI</u> [_]	Specify the quantity purchased and the average pric for each major source of supply listed. Product tr The average price is the market value of the produc substance.	ades are treated as	- Durch
`	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	The listed substance was manufactured on-site.	NA*	NA
	The listed substance was transferred from a different company site.	NA	NA
	The listed substance was purchased directly from a manufacturer or importer.	NA	NA
	The listed substance was purchased from a distributor or repackager.	NA	NA
	The listed substance was purchased from a mixture producer.	60.7kg	37.2)
3.02 CBI	Circle all applicable modes of transportation used your facility.	to deliver the list	ed substance to
[_]	Truck	• • • • • • • • • • • • • • • • • • • •	
	Railcar	• • • • • • • • • • • • • • • • • • • •	2
	Barge, Vessel		_
	Pipeline	• • • • • • • • • • • • • • • • • • • •	4
	Plane	• • • • • • • • • • • • • • • • • • • •	S
<del>-X</del>	Other (specify)	• • • • • • • • • • • • • • • • • • • •	6
	·		
<u>                                     </u>	Mark (X) this box if you attach a continuation sheet		· · · · · · · · · · · · · · · · · · ·

3.03	а.	Circle all applicable containing was a second and a second a second and a second an
CBI	a	Circle all applicable containers used to transport the listed substance to your facility.
[_]		
		Bags 1
		Boxes 2
		Free standing tank cylinders 3
		Tank rail cars 4
		Hopper cars 5
		Tank trucks 6
		Hopper trucks 7
		Drums 8
		Pipeline 9
		Other (specify) Can
	b.	If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks. Not Applicable
		Tank cylinders mmHg
		Tank rail cars mmHg
		Tank trucks mmHg
		·
		·

 $[\ \ ]$  Mark (X) this box if you attach a continuation sheet.

.04 <u>31</u>	average percent compos	ame of its supplier(s)	orm of a mixture, list the or manufacturer(s), an estellisted substance in the mrting year.	imata af the
	Trade Name EN-5	Supplier or Manufacturer	Average % Composition by Weight (specify ± % precision)  /3 ± NA	Amount Processed (kg/yr) /4.
	·			

ART C RAW MATERIAL VOLUME		
BL reporting year in the t	he listed substance used as a raw orm of a class I chemical, class , by weight, of the listed substa	II chemical, or polymer and
Class I chemical	Quantity Used (kg/yr)	% Composition by Weight of Listed Substance in Raw Material (specify ± % precision
Class II chemical	Not Applicable	Not Applicable
Polymer	Not Applicable	Not Applicable

[ ] Mark (X) this box if you attach a continuation sheet.

SECTION	4	PHYSTCAL.	/CHEMICAL	PROPERTIES

Ceneral Instructions	Can	oral	In	etri	10	t i	OBS
----------------------	-----	------	----	------	----	-----	-----

If you are reporting on a mixture as defined in the glossary, reply to questions in Section 4 that are inappropriate to mixtures by stating "NA -- mixture."

For questions 4.06-4.15, if you possess any hazard warning statement, label, MSDS, or other notice that addresses the information requested, you may submit a copy or reasonable facsimile in lieu of answering those questions which it addresses.

CBI	substance as it is man substance in the final import the substance,	rity for the three major ufactured, imported, or product form for manufa or at the point you begi	processed. Measure the cturing activities, a	he purity of the time you
	Dot Applicable - m	Manufacture	Import	Process
•	Technical grade #1	% purity	% purity	% puri
	Technical grade #2	% purity	% purity	% puri
	Technical grade #3	% purity	% purity	% puri
.02	<pre>1 Major = Greatest quan Submit your most recen substance, and for eve</pre>	tity of listed substance tly updated Material Saf ry formulation containin	e manufactured, import fety Data Sheet (MSDS) ng the listed substanc	ed or processed.  for the listed e. If you posse
.02	1 Major = Greatest quan  Submit your most recen substance, and for eve an MSDS that you devel version. Indicate whe appropriate response.	tity of listed substance  tly updated Material Saf ry formulation containin oped and an MSDS develop ther at least one MSDS h	e manufactured, import ety Data Sheet (MSDS) og the listed substance eed by a different sou has been submitted by	for the listed e. If you posses rce, submit your circling the
.02	1 Major = Greatest quan  Submit your most recen substance, and for eve an MSDS that you devel version. Indicate whe appropriate response.	tity of listed substance tly updated Material Saf ry formulation containin oped and an MSDS develop	e manufactured, import ety Data Sheet (MSDS) og the listed substance eed by a different sou has been submitted by	for the listed e. If you posses rce, submit your circling the
.02	lMajor = Greatest quan  Submit your most recen substance, and for eve an MSDS that you devel version. Indicate whe appropriate response.  Yes	tity of listed substance  tly updated Material Saf ry formulation containin oped and an MSDS develop ther at least one MSDS h	e manufactured, import fety Data Sheet (MSDS) ng the listed substance and by a different sou has been submitted by	for the listed e. If you posses rce, submit your circling the
.02	lMajor = Greatest quan  Submit your most recen substance, and for eve an MSDS that you devel version. Indicate whe appropriate response.  Yes	tity of listed substance  tly updated Material Saf ry formulation containin oped and an MSDS develop ther at least one MSDS h	e manufactured, imported the sety Data Sheet (MSDS) and the listed substanced by a different soular been submitted by	for the listed e. If you posses rce, submit your circling the
02	lMajor = Greatest quan  Submit your most recen substance, and for eve an MSDS that you devel version. Indicate whe appropriate response.  Yes	tity of listed substance  tly updated Material Saf ry formulation containin oped and an MSDS develop ther at least one MSDS h	e manufactured, imported the sety Data Sheet (MSDS) and the listed substanced by a different soular been submitted by	for the listed e. If you posses rce, submit your circling the

C O N A P I N C . 1405 Buffalo St. Olean, New York 14760 716/372-9650

```
======== MATERIAL SAFETY DATA SHEET ============
Note: This form is to be used to comply with OSHA's Hazard
Communication Standard, 29 CFR 1910.1200. Blank spaces are
not permitted.
                I. IDENTIFICATION ===========
Trade Name Conathane EN-5 Part A
                                      Date:5/25/89
Chemical Name, common name: Complex Mixture; Polyurethane
                        Prepolymer
========= II. HAZARDOUS
                         INGREDIENTS =========
Chemical Names CAS No. % ACGIH(TLV) OSHA(PEL) Other
Toluene 2,4 Diisocyanate 584-84-9 <15% .005ppm TWA
                       .005ppm TWA .02ppm STEL ND
Material may present a dust hazard if cut, ground or
machined after curing.
Boiling Point ND
                      !Specific Gravity (H2O=1) 1.06
Vapor Pressure,mm Hg ND !Vapor Density (air=1)
Melting Pt./Range ND !Evaporation rate (Ether=1) ND
Solubility in Water: REACTS! Physical State: LIQUID
Percent volatile by volume: Negligible
Appearance and Odor: Liquid; For TDI Sharp pungent (odor
threshold greater than TLV)
======== IV. FIRE AND EXPLOSION DATA ==========
Flash Point, F (Method): > 260 F PMCC
Flammable Limits
               ND
                      LEL ND
                              \mathtt{UEL}
                                    ND
Extinguishing Materials:
               -XX-Dry Chemical -XX-Carbon Dioxide
-XX-Water Spray
-XX-Foam
                  -ND-Other:
Special Firefighting Procedures/Unusual Fire or Explosion
Hazards:
Full emergency equipment with self-contained breathing
apparatus and full protective clothing should be worn by
fire fighters. No skin surface should be exposed. During a
fire TDI vapors and other irritating, highly toxic gases
may be generated by thermal decomposition or combustion. At
temperatures greater than 350 F TDI forms carbodiimides
with the release of CO2 which can cause pressure build-up
in closed containers. Explosive rupture is possible.
Therefore, use cold water to cool fire-exposed containers.
======== V. HEALTH HAZARD INFORMATION ==========
ACUTE TOXICITY (Routes of entry)
Inhalation:
LC50.(4 hr.): Range 16-50ppm for 1-4 hr (Rat) on TDI. TDI
```

vapors or mist at concentrations above the TLV can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). Persons with a preexisting, nonspecific bronchial hyperactivity can respond to concentrations below the TLV with similar symptoms as well as asthma attack. Exposure well above the TLV may lead to bronchitis. bronchial spasm and pulmonary edema (fluid in the lungs). These effects are usually reversible. Chemical or hypersensitive pneumonitis, with flu-like symptoms (e.g. fever, chills), has also been reported. These symptoms can be delayed up to several hours after exposure.

Ingestion:

ORAL,LD50 > 5800 mg/kg (Rats). Can result in irritation and corrosive action in the mouth, stomach tissue and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.

Eye Contact:

Strongly irritating (Rabbits) OECD Guidelines. Liquid, aerosols or vapors are severely irritating and can cause pain, tearing, reddening and swelling. If left untreated, corneal damage can occur and injury is slow to heal. however, damage is usually reversible. Skin Contact:

Skin sensitizer in guinea pigs. One study with guinea pigs reported that repeated skin contact with TDI caused respiratory sensitization. Isocyanates react with skin protein and moisture and can cause irritation which may include the following symptoms: reddening, swelling, rash, scaling or blistering. Cured material is difficult to

remove. Skin Absorption:

ND

CHRONIC TOXICITY Carcinogenicity:

--X-Yes: --X---NTP --X----IARC ----Federal OSHA In a DRAFT of a lifetime bioassay, the National Toxicology Program reported that TDI caused an increase in the number of tumors in exposed rats over those counted in non-exposed rats. The TDI was administered by gavage where TDI was introduced into the stomach through a tube. In inhalation studies conducted by Hazelton Labs for the International Isocyanate Institute, TDI did NOT demonstrate carcinogenic activity in rats or mice.

Target Organ Affected:

No specific information available.

Effects of Overexposure:

#### Inhalation:

Inhalation of TDI vapors at concentrations above allowable limits can produce irritation of the mucous membranes in the respiratory tract resulting in running nose, sore throat, productive cough and a reduction in lung function (breathing obstruction). As a result of previous repeated overexposures or a single large dose, certain individuals may develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. Another type of response is hyperreactivity or hypersensitivity, in which persons, (as a result of a previous repeated overexposure or large single dose), can respond to small TDI concentrations at levels well below the .02ppm. Symptoms could be immediate or delayed and include chest tightness, wheezing, cough, shortness of breath or asthmatic attack. Hypersensitivity pneumonitis (with similar respiratory symptoms and fever which has been delayed) has also been reported. Similar to many non-specific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Chronic overexposure to isocyanate has also been reported to cause lung damage (including decrease in lung function) which may be permanent. Sensitization can either be temporary or permanent.

#### Eyes:

Liquid, vapors or aerosols are severely irritating to the eyes and can cause tears. Prolonged vapor contact may cause conjunctivitis. Corneal injury can occur which can be slow to heal; however damage is usually reversible. Skin:

TDI reacts with skin protein and tissue moisture and can cause localized irritation as well as discoloration. Prolonged contact could produce reddening, swelling, or blistering and, in some individuals, skin sensitization resulting in dermatitis. Once sensitized a individual can develop recurring symptoms as a result of exposure to vapor.

#### Ingestion:

Ingestion could result in irritation and some corrosive action in the mouth, stomach tissue and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.

Medical Conditions Aggravated By Exposure Asthma, other respiratory disorders (bronchitis, emphysema, bronchial hyperreactivity), skin allergies, eczema. FIRST AID: EMERGENCY PROCEDURES

Eye Contact:

Flush with clean, lukewarm water (low pressure) for at least 15 minutes, occasionally lifting eyelids, and obtain medical attention. Refer individual to an ophthalmologist for immediate follow-up.

Skin Contact:

Remove contaminated clothing. Wash effected areas thoroughly with soap or tincture of green soap and water. Wash contaminated clothing thoroughly before reuse. For severe exposures, get under safety shower, remove clothing under shower, get medical attention, and consult physician. Inhalation:

Move to an area free from risk of further exposure. Administer oxygen or artificial respiration as needed. Obtain medical attention. Asthmatic-type symptoms may develop and be immediate or delayed up to several hours. Consult physician.

Ingested:

Do not induce vomiting. Give 12 fl. oz. of milk or water to drink. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Consult physician.

Recommendations to Physician:

Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation frequently. Workplace vapors have produced reversible corneal epithelial edema impairing vision. This compound is a known skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burns. There is no specific antidote for ingestion treat symptomatically. Inducing vomiting is contraindicated because of the irritating nature of this compound. TDI is a known pulmonary sensitizer. Treatment is essentially symptomatic. An individual having a skin or pulmonary sensitization reaction to this material should be removed from exposure to any isocyanate.

Conditions to Avoid: Temperatures higher than recommended in product literature.

Incompatibility (materials to avoid):

Water, short chain alcohols, amines

Hazardous Decomposition Products

By heat and fire: carbon dioxide, carbon monoxide, oxides of nitrogen and traces of hydrogen cyanide, TDI.

Hazardous Polymerization: NA-May Occur X-Will not occur Conditions to avoid:

ND

====== VII. SPILL, LEAK AND DISPOSAL PROCEDURES ====== Steps to be taken if material is released or spilled: Consult section VIII for proper protective equipment.

Cover the spill with sawdust, vermiculite, Fuller's earth or other absorbent material. Pour decontamination solution over the spill area and allow to react for at least 10 minutes. Collect the material in open top containers and add additional amounts of decontamination solution. Remove containers to a safe place, cover loosely, and allow to stand for 24 to 48 hours. Wash down spill area with decontamination solutions. Decontamination solutions: non-ionic surfactant Union Carbide's Tergitol TMN-10(20%) and water (80%); or concentrated ammonia (3-8%), detergent (2%), and water (90%). During spill clean-up, a self contained breathing apparatus or air line respirator and protective clothing must be worn. (See section VIII). Reportable Quantity CERCLA: 1001bs

Waste Disposal Method:

Dispose according to any Local, State and Federal Regulations.

====== VIII. SPECIAL HANDLING INFORMATION ======== Respiratory Protection:

A positive pressure air-supplied respirator is required whenever TDI concentrations exceed the Short-Term Exposure or Ceiling Limit of .02ppm or exceed the 8 hour Time Weighted Average TLV of 0.005 ppm. An air supplied respirator must also be worn during spray application, even if exhaust ventilation is used. For non-spray, short-term(less than 1 hour) situations where concentrations are near the TLV, a full face, air-purifying respirator equipped with organic cartridges or canisters can be used. However, TDI has poor warning properties since the odor at which TDI can be smelled is substantially higher than the 0.02 ppm. Therefore, proper fit and timely replacement of filter elements must be ensured. Observe OSHA regulations for respirator use. (29CFR 1910.134). Ventilation:

Local exhaust should be used to maintain levels below the TLV whenever TDI containing material is handled, processed, or spray-applied. At normal room temperatures (70 F) TDI levels quickly exceed the TLV unless properly ventilated. Standard reference sources regarding industrial ventilation (e.g., ACGIH INDUSTRIAL VENTILATION) should be consulted for guidance about adequate ventilation.

Protective Gloves: Chemical resistant gloves (butyl rubber, nitrile rubber, polyvinyl alcohol). However, please note that PVA degrades in water.

Eye Protection:

Liquid chemical goggles or full face shield should be worn. Contact lenses should not be worn. Other Protective Clothing or Equipment: Safety showers and eyewash stations should be available. Cover as much of exposed skin as possible with appropriate clothing.

Work Practices, hygienic practices Educate and train employees in safe use of product. Follow all label instructions. Handling and Storage: Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspect. Other Precautions: Avoid contact with eyes and skin. Do not breathe the ======== X ADDITIONAL INFORMATION ============= SARA Title III Requirements: TDI is on the Extremely Hazardous Substance. Chemical Name Section: 302 CERCLA Toluene 2,4 Diisocyanate TPQ-500 LBS | RQ-100 LBS | YES T.S.C.A. Status: On Inventory Name(print):George C. Karpin !This formulation is subject Signature: !to change without notice. Title:Toxicological Coordinator!In case of accident use the Date of last revision5/25/89!phone number provided. To the best of our knowledge, the information contained herein is accurate and meets all state and federal guidelines. However, CONAP INC. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of the suitability of any material is the sole responsibility of the user. Date approved 5 /26 /89 Approved: Mall Maller
ND=Not Determined
NA=Not Applicable

5/34/57 Approved: Maller

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.  Not Applicable - The articles the customer receives do not yes. Contain.
	No 2
4.04	For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for
<u>CBI</u>	manufacturing, storage, disposal and transport activities are determined using the final state of the product.

Physical State Liquified Solid Slurry Liquid Gas Activity Gas Manufacture 1 2 3 4 5 Import 1 2 5 2 5 **Process** 2 5 Store Dispose 2 5 3 5 Transport 1 2

|--|

CBI	following percentage particles importing listed sy	Size If the list g activities, indica ge distribution of t s ≥10 microns in dia g and processing act ubstance. Measure t disposal and transp	te for each ap he listed subs meter. Measur ivities at the he physical st ort activities	oplicable stance by se the ple time you sate and	e physical / activity nysical st ou import particle	state Do nate and or begingsizes	the size not includ I particle in to proc For manufa	and the le sizes for ess the
	Physical State		Manufacture	Import	Process	Store	Dispose	Transport
	Dust	<1 micron				-	######################################	
		1 to <5 microns						
		5 to <10 microns						
	Powder	<1 micron				_		
		1 to <5 microns				_		
•		5 to <10 microns			<u> </u>	_		
	Fiber	<1 micron						
		1 to <5 microns						
		5 to <10 microns						
	Aerosol	<1 micron				_		
		1 to <5 microns						
		5 to <10 microns						
							•	

[\_] Mark (X) this box if you attach a continuation sheet.

n spectrum coefficient (peak)  quantum yield, 6  otolysis rate constant, k <sub>p</sub> , at  constants at 25°C:  singlet oxygen), k <sub>ox</sub> peroxy radical), k <sub>ox</sub>	<u>UK</u> 1/hr <u>U</u>	UK nm Klatit
quantum yield, 6	<u>UK</u> 1/hr <u>U</u>	UK nm Klatit
constants at 25°C: singlet oxygen), k <sub>ox</sub>	<u>UK</u> 1/hr <u>U</u>	K latit
constants at 25°C: singlet oxygen), k <sub>ox</sub> peroxy radical), k <sub>ox</sub>	UK	1/
peroxy radical), k <sub>ox</sub>		
	UK	
hischamical awaren demend ROD		1/
orochemicar oxygen demand, bob,	UK	mg
ormation rate constant:		
rial transformation in water, k <sub>b</sub>	UK	1/
ulture	UK	<u>_</u>
s rate constants:		
promoted process, k <sub>B</sub>	UK	1/
promoted process, k,	UK	1/
al process, k <sub>N</sub>	UK	1/
reduction rate (specify conditions)	UK	
th as spontaneous degradation)	UK	
1	ulture	reduction rate (specify conditions)

[\_] Mark (X) this box if you attach a continuation sheet.

PART	' B 1	PARTITION COEFFICIENTS						
5.02	а.	a. Specify the half-life of the listed substance in the following media.						
		Media Half-lif			e (specify units)			
		Groundwater	υK					
		Atmosphere		UK				
		Surface water		UK				
		Soil		UK				
	b.	Identify the listed s life greater than 24	substance's known tra hours.	unsformation prod	ucts that h	nave a half-		
		CAS No.	Name	Half-life (specify unit	<u>s)</u>	Media		
		UK	UK	UK	in	UK		
					in			
					in			
					in			
5.03	Spe	cify the octanol-water	partition coefficie	nt, K <sub>ow</sub>	υK	at 25°C		
	Meti	hod of calculation or	determination		·UK			
5.04	Spe	cify the soil-water pa	rtition coefficient,	K <sub>d</sub>	UΚ	at 25°C		
	Soi	l type	••••••••••		UK			
5.05	Spec	eify the organic carbo	n-water partition		UK	at 25°C		
5.06	Spec	cify the Henry's Law Co	onstant, H		UK	atm-m³/mole		
	Mark	(X) this box if you	attach a continuatio	n sheet.	<del></del>			

Bioconcentration Factor	Species	Test <sup>1</sup>
<u> </u>	UK	UK
<sup>1</sup> Use the following codes to de	esignate the type of test:	
<pre>F = Flowthrough S = Static</pre>		

	Market	Quantity Sold or Transferred (kg/yr)	Total Sales Value (\$/yr)			
	Retail sales					
	Distribution Wholesalers					
	Distribution Retailers					
	Intra-company transfer					
	Repackagers					
	Mixture producers					
	Article producers					
	Other chemical manufacturers or processors					
	Exporters	·				
	Other (specify)					
.05 BI	Substitutes List all known commercially feasible substitutes that you know exis for the listed substance and state the cost of each substitute. A commercially feasible substitute is one which is economically and technologically feasible to u in your current operation, and which results in a final product with comparable performance in its end uses.					
	F					
	Substitute		Cost (\$/kg)			
	Substitute		Cost (\$/kg)			
	Substitute UK		Cost (\$/kg)			
			<del></del>			
			<del></del>			
J						
			<del></del>			

#### General Instructions:

For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

### PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

CBI Staking, Bonding EN-5 Process type . **VENT** PART A\* Load into Small 7A Check Mix Load into Syringes De-airing Shelf Life (Disposable (7.5)Syringe System Expiration Cup\*\*) (3-6 oz.) 70 7D (7.3)Date (7.1) (7.2)(7.4)Load into 7K Cap Plugs PART B WASTE 7B WASTE WASTE (7.6) 7Y 7 H 7C Freeze at 70 C (7.7) VENT VENT 7P 7R Apply to Electronic 7Q Oven Cure at 66 C STORE Components from (7.10)ΑT syringe (7.9) •-70 C (7.8) WASTE. 7Z \ VENT VENT 7x 7V Apply to Electronic Oven Cure at 66 C 7U Components from Cap (7.12)Plugs with Stick (7.11) \*CONTAINS TDI \*\*TIN FOIL OR PLASTIC

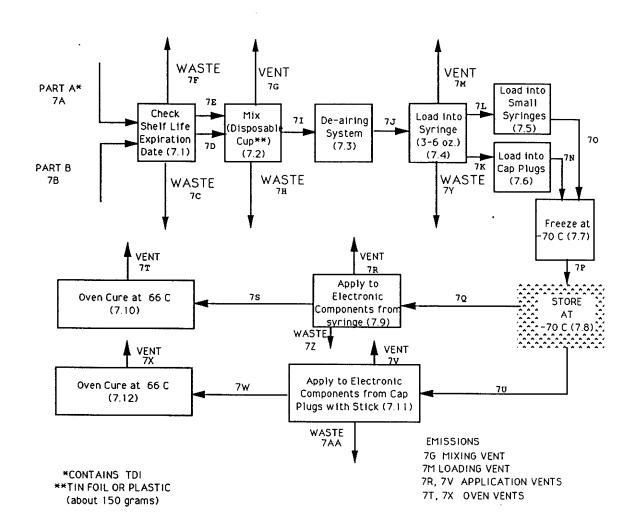
[ ] Mark (X) this box if you attach a continuation sheet.

(about 150 grams)

7.03 In accordance with the instructions, provide a process block flow diagram showing al process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block.

CBI

1 Process type ..... Staking Bonding EN-5



<sup>[ ]</sup> Mark (X) this box if you attach a continuation sheet.

7.04	process bloc	e typical equipment types ck flow diagram(s). If a ocess type, photocopy thi e.	process block flo	w diagram is provi	ded for more
<u>CBI</u>		<b>~</b>	0 ,		
[_]	Process type	Staking	g, Bonding	EN-5	
	Unit Operation ID Number 7. 1 7. 2 7. 3 7. 4 7. 5 7. 6 7. 7 7. 8 7. 9 7. 10	Typical Equipment	Operating Temperature Range (°C)  Not Applicable  combient  ambient  ambient  ambient  -70°C  -70°C  ambient	Operating Pressure Range (mm Hg)  Le Not Applicable atmospheric	plastic plastic plastic plastic steel steel plastic

7,04	brocess ord	cocess type,	gram(s). It a	for each unit process block s question and	flow diagram i		£
CBI				$\circ$			
[_]	Process typ	oe	Stak	ing, Bo	nding &	EN-5	<u>)</u>
	Unit Operation ID Number 7, 11	Equi	pical ipment vpe	Operating Temperature Range (°C)  ambier	(mm Hg)	ce <u>C</u>	Vessel omposition
	7.1a	_00	en	66	atmosph	eric si st	Zin Ess.
							steel
·							<del></del>
					<del></del>		
						- 	
	***************************************	-					

 $[\ \ ]$  Mark (X) this box if you attach a continuation sheet.

Describe each process stream identified in your process block flow diagram(s).	
process block flow diagram is provided for more than one process type, photocopy	this
question and complete it separately for each process type.	

<u>CBI</u>	Process type .	Staking, Bor	nding EN.	-5
	Process Stream			
	ID Code	Process Stream Description	Physical State	Stream Flow (kg/yr)
	7 A	EN-SPart A	OL	60.7
	7B	EN-5Part B	06	15.
	7 C	Expired EN-5 PartB	<u> </u>	_11.7
	70	EN-5 Part B	<u> </u>	3,4
	7 E	EN-5 Part A	01	14.0
•	<u> 7F</u>	Expired EN-5 RotA	<u> </u>	46.7
	_7G_	Mixing Vent	<u>GU</u>	77.000
	<u> 7 H</u>	Spent Mixing Cupl	<u> </u>	0.4 *

<sup>&</sup>lt;sup>1</sup>Use the following codes to designate the physical state for each process stream:

- GC = Gas (condensible at ambient temperature and pressure)
- GU = Gas (uncondensible at ambient temperature and pressure)
- S0 = Solid
- SY = Sludge or slurry
- AL = Aqueous liquid
- OL = Organic liquid
- IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

7.05	Describe each process s process block flow diag question and complete	gram is provided fo	r more than one pro	k flow diagram(s). ocess type, photocop	If a y this
<u>CBI</u>				<b>—</b> —	
[-]	Process type	Staking	Bonding	EN-5	

	0,	J	
Process Stream ID Code	Process Stream Description	Physical State	Stream Flow (kg/yr)
71	Reactive Mix	_ OL_	17.0
73	Reactive Mix	OL	17.0
_7K_	Reatise M:x	OL	<u>8. 25</u>
76	Reative Mix	OL	8.25
<u> 7 M</u>	Loading Vent	<u> GU</u>	77,000
-7N	Loaded Cap Plugs	OL	<u>8. 25</u>
_70_	Loaded Syringes	OL_	<u> </u>
<u> 7P</u>	Frozen Capplys/Syring	es SO	16.7

<sup>&</sup>lt;sup>1</sup>Use the following codes to designate the physical state for each process stream:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

SO = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

If a proce this quest	ze each process stream ic ss block flow diagram is ion and complete it sepa ns for further explanation	provided for more rately for each	re than one pro process type.	cess type, photocopy
[_] Process ty	pe Staki	ng Bond	ling EN	-5
8.	b.	0 ' c.	Ø.	e.
Process Stream ID Code	Known Compounds <sup>1</sup>	Concentrations <sup>2,3</sup> (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
7E,7F	Same as 7A	Same as 7A	NA	NA
7 <u>1,73,7K</u> 76,70,70,79, 70,74,	Urethane TOI TOI Prepolyme Etholexadial PhenylmercuricOle Stoddard Solven UD-bis(a-hydroxyan (E, W)	~10% ~65% ~7% wte~1.5% 1 ~1.5%	NA NA NA NA NA	υΑ

7.06 continued below

7.05	process block	process stream identified in your p flow diagram is provided for more t omplete it separately for each proc	han one process type	agram(s). If a photocopy this
CBI		_		
[_]	Process type .	Staking, Bo	nding EN	-5
	Process			
	Stream ID	Process Stream	<u> </u>	Stream
	Code	Description	Physical State	Flow (kg/yr)
	<u> 7Q</u>	Thawing Mix	$SO \rightarrow OL$	8,25
	_7R_	Application Vent	GU	77,000
	<u> 75</u>	Curing Article	<u> </u>	<u>8.0 <sup>3</sup></u>
	<u> </u>	Oven Vent	<u> </u>	2,000
	<u> 7U</u>	Thawing Mix	50-70L	<u>8. 25</u>
•	7 🗸	Application Vent	GU	77,000
	7 W	Curing Anticle	50	8.0 >
	7 X	Oven Vent	GII	2,000
	GC = Gas (cond GU = Gas (unco SO = Solid SY = Sludge or AL = Aqueous 1 OL = Organic 1	liquid	pressure)	
Doe.	s not	include weight of	à article	-
<u> </u>	Mark (X) this i	oox if you attach a continuation sh	eet.	

7.05	brocess prock rio	cess stream identified in yo w diagram is provided for mo lete it separately for each	re than one process to	diagram(s). If a per photocopy this
CBI				
[_]	Process type	Staking, F	Bonding EA	J-5
	TAA  72  Use the following  GC = Gas (condens GU = Gas (unconde SO = Solid SY = Sludge or sl AL = Aqueous liqu OL = Organic liqu	id	and pressure) re and pressure)	
068	s not in	clude weight	of syring	ges.
(_)	Mark (X) this box	if you attach a continuation	n sheet.	

_1	Process typ	se <u>Staking</u>	Bondi	ng EN-	5
	a.	b.	c.	d.	e.
	Process Stream ID Code	Known Compounds <sup>1</sup>	Concen- trations <sup>2,3</sup> (% or ppm)	Other Expected Compounds	Estimated Concentration (% or ppm)
	7A	Tolvene 24. Diisocyante	<15%	NA	NA
		TDI Prepolymer (from MSDS)	785%	NA_	NA
	7B	Ethohexadial *	50-70%	NA	NA
•		Ph englmercoric Ola		NA.	_ NA
		Stoddard Solvent	<10%	NA	NA
		N. D-bis a - hydroxy propy	Pariline < 30%	NA_	NA
	70,70	Same as 7B	Sameas 7B	NA	NA
۴	break d	own according	to HSQs	<u> </u>	
06	continued b		O		

Mark (X) this box if you attach a continuation sheet.

If a proces this quest:	ze each process stream i ss block flow diagram is ion and complete it sepa ns for further explanati	provided for mon trately for each	re than one pro process type.	ocess type, photocopy
[_] Process typ	pe <u>Stak</u>	ling Bo	nding	EN-5
a.	b.	٠ .	d.	e.
Process Stream ID Code	Knovn Compounds <sup>1</sup>	Concen- trations <sup>2,3</sup> (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
75, 7W	urethane TOI	~20%	NA	
	TDI Prepolyme	r <u>~60/o</u>		
	Etho hexadio [ Phenylmerconic Olea	5%		
	Stoddard Solven	+ 13%	-	
	D N-bis(2-hidoxy-	5%		
76,7 <u>M,7R,</u> 7V		99.99999 9 -0.00001 9	6 NA	NA
7.06 continued b	pelow			
Mark (X) th	is box if you attach a	continuation she	et.	

7.06 <u>CBI</u> [_]	If a proces this questi	e each process stream ides block flow diagram is pont on and complete it separates for further explanation	rovided for mon tely for each p	re than one proc process type. (	ess type, photocop
[_]		S+. V.		- • /	
	<b>a</b> .	e <u>Jaking</u>	, bond	ing EN-5	5
	•	b. (	c.	d.	e.
	Process Stream ID Code	Known Compounds 1	Concen- trations <sup>2,3</sup> (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
	7 <u>H, 79</u> 72, 7AA	Phenylmercuric Oleak	<u>93.5%</u> 1.5%	A A	_ NA
·		NN-bis(2-hydroxy- propyl)aniline (E, W)	5 %		
	7 <u>7, 7</u> x	Air >99.0  TOI <0  Stoddard Solven  (E, W)	79999 % ,000005 % 120.00005 %		
7.06	continued b	elov			

SECTION 8	RESIDUAL	TREATMENT	GENERATION,	CHARACTERIZATION,	TRANSPORTATION,	AND
	MANAGEMEN	VT.				

#### General Instructions:

For questions 8.04-8.06, provide a separate response for each residual treatment block flow diagram provided in question 8.01, 8.02 or 8.03. Identify the process type from which the information is extracted.

For questions 8.05-8.33, the Stream Identification Codes are those process streams listed in either the Section 7 or Section 8 block flow diagrams which contain residuals for each applicable waste management method.

For questions 8.07-8.33, if residuals are combined before they are handled, list those Stream Identification Codes on the same line.

Questions 8.09-8.33 refer to the waste management activities involving the residuals identified in either the Section 7 or Section 8 block flow diagrams. Not all Stream Identification Codes used in the sample answers (e.g., for the incinerator questions) have corresponding process streams identified in the block flow diagram(s). These Stream Identification codes are for illustrative purposes only.

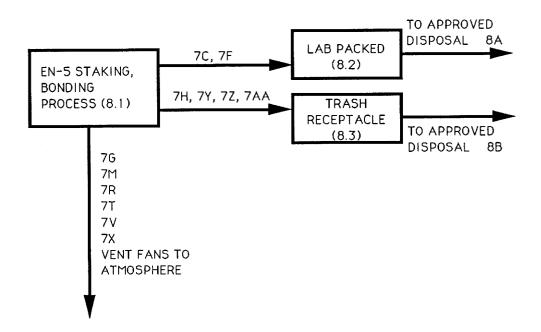
For questions 8.11-8.33, if you have provided the information requested on one of the EPA Office of Solid Waste surveys listed below within the three years prior to your reporting year, you may submit a copy or reasonable facsimile in lieu of answering those questions which the survey addresses. The applicable surveys are: (1) Hazardous Waste Treatment, Storage, Disposal, and Recycling Survey; (2) Hazardous Waste Generator Survey; or (3) Subtitle D Industrial Facility Mail Survey.

[_]	Mark (X)	this	box if	you	attach	a	continuation	sheet.		
_										

#### PART A RESIDUAL TREATMENT PROCESS DESCRIPTION

8.01 In accordance with the instructions, provide a residual treatment block flow diagram which describes the treatment process used for residuals identified in question 7.01.

[] Process type ..... Staking Bonding EN-5



<sup>[ ]</sup> Mark (X) this box if you attach a continuation sheet.

PART B RESIDUAL GENERATION AND CHARACTERIZAT
--

8.05 - <u>CBI</u>	diagram	n(s). If a s type, phot	residual tre	eam identified : eatment block fi uestion and cor ons for further	low diagram is mplete it sepa	provided for rately for each	more than one
(_)	Process	type	<u>S</u> -	taking.	Bondin	Q EN	-5_
	a.	b.	c.	d.	e.	σ <sub>f</sub> .	g.
	Stream ID Code	Type of Hazardous Vaste	Physical State of Residual <sup>2</sup>		Concentrations (% or ppm) 4.5%	Other Expected Compounds	Estimated Concentrations (% or ppm)
	7 <i>F</i>	R	0(>250%	(from MSD	(2		NA
				Stoddard Solvent Etholexa- diol N.N-bis	<u> </u>	(**)	
76,7H,°	7 <u>Ŗ7V</u>	*	<u> </u>	<del></del>	79.99999 % 0.0000196		<u>NA</u>
דך	7. <u>7</u> x	*	<u> </u>		99999% 0.00005% 0.00005%	ν <sub>A</sub>	NA
8.05	Breal	Edown	from	MSDS			
* N ** 8.05	Break continue	Edown	trom.	TOI Stodard Solvent (E, W) S Wast	0.00005 % 0.000005 %	—	

## 8.05 (continued) <sup>1</sup>Use the following codes to designate the type of hazardous waste: I = Ignitable C = Corrosive R = Reactive E = EP toxicT = ToxicH = Acutely hazardous <sup>2</sup>Use the following codes to designate the physical state of the residual: GC = Gas (condensible at ambient temperature and pressure) GU = Gas (uncondensible at ambient temperature and pressure) SO = SolidSY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene) 8.05 continued below

<sup>[</sup>\_\_] Mark (X) this box if you attach a continuation sheet.

8.06	process	Characterize each process stream identified in your residual treatment block flow diagram(s). If a residual treatment block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.)									
<u>CBI</u>							,				
[_]	Process	type	Stc	i King,	Bono	Ling	EN-5				
	a.	b.	c.	d.	e	. 0	f.	g.			
	Stream ID Code	Vaste Description Code	Code <sup>2</sup>	Residual Quantities (kg/yr)	of Resi	gement dual (%) Off-Site	Costs for Off-Site Management (per kg)	Changes in Management Methods			
	<u>/                                    </u>	<u>B67</u>	1A 1ST 3I	11.7 11.7	<u> </u>	<u> </u>	5.57*	none			
·	7 <i>F</i>	B67	IA	46.7	100			none			
			<u>15T</u> 3I	46.7 46.7		100	5.57*	none			
	7 <i>H</i>	<u>889</u>	10	0.4		100	90.04	none			
	<b>7</b> 4	B82	1.0	0.34			90.04				
								Mone			
	use the	codes provid	ded in Exhil	pit 8-1 to de	esignate	the vaste	descriptions	ncinematro			
<b>∑</b> 1	Mark (X)	this box if	you attach	a continuat:	ion sheet	•					

8.06	process	type, photo	conv this a	am identified atment block uestion and d ons for furth	LIOW GIAS	tam is pro	vided for mo	re than one
<u>CBI</u>		type		a Kerig				
	stream ID Code	Vaste Description Code  882	C. Management	d.  Residual Quantities (kg/yr)	e Mana	gement dual (%)	f. Costs for Off-Site Management (per kg)	g. Changes in Management Methods
م م	7A A	<u>882</u>	10	0.4		100	\$0.04	none
	76	<u>857</u>	M5a	0.005	* *	NA	NA	NA
	<u>7M</u>	<u>B57</u>	<u> </u>	0.005	NA	 <i>\mathcal{U} A</i>	NA	NA
	<sup>1</sup> Use the	codes provi	ded in Exhil	ορίς <u>α μο</u> bit 8-1 to de bit 8-2 to de	signate (	the waste of	descriptions	
<b>\Z</b> 1	Mark (X)	this box if	you attach	a continuati	on sheet.	,		

8.06	process	type, photo	conv this a	am identified atment block uestion and c ons for furth	amplate it	am is pro	vided for mo	re than one
<u>CBI</u>								
[_]	Process	type	<u>St</u>	a King,	Bono	ding	EN-5	•
	a.	ь.	с.	d.	e.	đ	f.	g.
	Stream ID Code	Vaste Description Code	Code <sup>2</sup>	Quantities (kg/yr)	Manage of Reside	ual (%)	Costs for Off-Site Management (per kg)	Changes in Management Methods
	<u> 7R</u>	B57	M5a	0,005	NAX	NA	NA	NA
.**	<u>7T</u>	<u>857</u>	<u>М5а</u>	0.000/2	NA	NA	NA	NA
	<u>7V</u>	<u>B57</u>	M5a	.005	NA -	NA	NA	NA
	7 <u>x</u>	<u>857</u>	M5a	0.00012	NA	NA	NA	NA
* 1	An	eans	Not A	pplicabo	<u> </u>		•	
	Use the	codes provid	ded in Exhi	bit 8-1 to de bit 8-2 to de	signate th	e vaste d e managem	lescriptions ment methods	
<u>1</u>	fark (X)	this box if	you attach	a continuati	on sheet.			

#### WASTE DESCRIPTION CODES

These waste description codes were developed specifically for this survey to supplement the descriptions listed with the RCRA and other waste codes. (These waste description codes are not regulatory definitions.)

### WASTE DESCRIPTION CODES FOR HAZARDOUS WASTE DESCRIBED BY A SINGLE RCRA F, K, P, OR U WASTE CODE

401 Sp	ent solve	nt rF001	-F005.	K086)
--------	-----------	----------	--------	-------

A02 Other organic liquid (F001-F005, K086)

A03 Still bottom (F001-F005, K086)

A04 Other organic studge (F001-F005, K086)

A05 Wastewater or aqueous mixture

A06 Contaminated soil or cleanup residue

Other F or K waste, exactly as described\*

A08 Concentrated off-spec or discarded oroduct

A09 Empty containers

A10 Incinerator ash

Solidified treatment residue

Other treatment residue (specify in A12 "Facility Notes")

A13 Other untreated waste (specify in Facility Notes")

INORGANIC LIQUIDS-Waste that is primarily norganic and highly fluid (e.g., aqueous), with low suspended inorganic solids and low organic

301 Aqueous waste with low solvents

302 Aqueous waste with low other toxic organics

B03 Spent acid with metals

**B04** Spent acid without metals

805 Acidic aqueous waste

B06 Caustic solution with metals but no

B07 Caustic solution with metals and cyanides

808 Caustic solution with cyanides but no metals

**B09 Spent caustic** 

810 Caustic aqueous waste

811 Aqueous waste with reactive sulfided

B12 Aqueous waste with other reactives (e.g.,

B13. Other aqueous waste with high dissolved sonds

514. Other aqueous waste with fow dissolved SONOS

B15 Scrupper water

816 Leachate

917 Waste liquid mercury

818 Other inorganic liquid (specify in 'Facility Notes 1

INORGANIC SLUDGES-Waste that is primarily inorganic, with moderate-to-high water content and low organic content; pumpable.

819 Lime sludge without metals

Lime sludge with metals/metal hydroxide sludge

B21 Wastewater treatment sludge with toxic OFGENICS

822 Other wastewater treatment sludge

B23 Untreated plating sludge without cyanides

824 Untreated plating sludge with cyanides

825 Other sludge with cyanides

826 Sludge with reactive sulfides

**B27** Sludge with other reactives

B28 Degreasing sludge with metal scale or filings

B29 Air pollution control device studge (e.g., fly ash, wet scrubber studge)

B30. Sediment or lagoon dragout contaminated with organics

B31 Sediment or lagoon dragout contaminated with inorganics only

**B32** Dalling mud

"Exactly as described" means that the waste matches the description of the RCRA waste code.

833 Asbestos slurry or sludge

834 Chloride or other brine sludge

**B35** Other inorganic studge (specify in Facility Notes )

INORGANIC SOLIDS—Waste that is primarily inorganic and solid, with low organic content and low-to-moderate water content; not pumpapie

**B36** Soil contaminated with organics

**B37** Soil contaminated with inorganics only 838

Ash, stag, or other residue from incineration of wastes

**B39** Other "dry" ash, slag, or thermal residue

B40 "Dry" lime or metal hydroxide solids chemically "fixed"

**B41** "Dry" lime or metal hydroxide solids not "fixed"

Metal scale, filings, or scrap 842

843 Empty or crushed metal drums or con-

844 Batteries or battery parts, casings, cores

**B45** Spent solid filters or adsorbents 846 Asbestos solids and debns

847 Metal-cyanide salts/chemicals

**B48** Reactive cyanide satts/chemicals

849 Reactive sulfide salts/chemicals

**B50** Other reactive salts/chemicals

**B51** Other metal salts/chemicals 852 Other waste inorganic chemicals

853 Lab packs of old chemicals only

**B54** Lab packs of debns only

Mixed lab packs

Other inorganic solids (specify in 'Facility Notes")

INORGANIC GASES—Waste that is primarily inorganic with a low organic content and is a gas at atmospheric pressure.

B57 Inorganic gases

ORGANIC LIQUIDS—Waste that is primarily organic and is highly fluid, with low inorganic solids content and low-to-moderate water content.

**ASA** Concentrated solvent-water solution 859 Halogenated (e.g., chlonnated) solvent

860 Nonhalogenated solvent 861 Halogenated/nonhalogenated solvent

BA2 Oil-water emulsion or mixture

**B63** Waste oil

RAA Concentrated aqueous solution of other

organics 865 Concentrated phenolics

BAA Organic paint, ink, lacquer, or varnish

867 Adhesives or expoxies

**B68** Paint thinner or petroleum distillates

Reactive or polymerizable organic liquid 869

**B70** Other organic liquid (specify in "Facility Notes")

ORGANIC SUDGES—Waste that is primarily organic, with low-to-moderate inorganic solids content and water content; pumpable.

Still bottoms of halogenated (e.g., chiorinated) solvents or other organic liquids

872 Still bottoms of nonhalogenated solvents or other organic liquids

873 Oily studge

Organic paint or ink sludge **B74** 

875 Reactive or polymerizable organics

876 Resins, tars, or tarry studge

877 Biological treatment studge 878

Sewage or other untreated biological sludge

879 Other organic sludge (specify in "Facility Notes")

ORGANIC SOLIDS-Waste that is primarily organic and solid, with low-to-moderate inorganic content and water content; not pumpable.

880 Halogenated pasticide solid

881 Nonhalogenated pesticide solid

882 Solid resins or polymenzed organics

883 Spent carbon

884 Reactive organic solid

846 Empty fiber or plastic containers

RAG Lab packs of old chemicals only

867 Lab packs of debns only

Mixed lab packs

Other halogenated organic solid

Other nonhalogenated organic solid

ORGANIC GASES—Waste that is primarily organic with low-to-moderate inorganic content and is a gas at etmospheric pressure.

B91 Organic gases

# EXHIBIT 8-2. (Refers to question 8.06(c))

#### MANAGEMENT METHODS

	MANAGEMENT	METH	ODS
w1 _	Discharge to publicly owned	Page	
uı =	vastevater treatment vorks	for	very of solvents and liquid organics reuse
M2 =	Discharge to surface water under		Fractionation
•••	NPDES		Batch still distillation
M3 =	Discharge to off-site, privately		Solvent extraction
	owned wastewater treatment works		Thin-film evaporation
M4 =	Scrubber: a) caustic; b) water;	5SR	Filtration
•••	c) other		Phase separation
M5 =	Vent to: a) atmosphere; b) flare;		Dessication
	c) other (specify)		Other solvent recovery
M6 =	Other (specify)	-	
		Reco	very of metals
TREA	THENT AND RECYCLING	1MR	Activated carbon (for metals
			recovery)
Inci	neration/thermal treatment	2MR	Electrodialysis (for metals
11	Liquid injection		recovery)
21		3HR	Electrolytic metal recovery
3I	Rotary kiln with a liquid injection	4MR	Ion exchange (for metals recovery)
	unit	5MR	Reverse osmosis (for metals
4I	Tvo stage		recovery)
	Fixed hearth	6MR	Solvent extraction (for metals
<b>6</b> I	Multiple hearth	_	recovery)
7 <b>I</b>	Fluidized bed	7MR	Ultrafiltration (for metals
81	Infrared Fume/vapor	<b>-</b>	recovery)
91	Fume/vapor	8MR	Other metals recovery
101	Pyrolytic destructor		
111	Other incineration/thermal		evater Treatment
	treatment	AITE	er each wastewater treatment type
D	61		listed below (1WT - 66WT) specify
_	e as fuel		a) tank; or b) surface impoundment
	Cement kiln		(i.e., 63WTa)
	Aggregate kiln Asphalt kiln	Г	11
	Other kiln		lization
	Blast furnace	IMI	Equalization
APF	Sulfur recovery furnace	Cuar	nide oxidation
70F	Smelting, melting, or refining		Alkaline chlorination
, 1(1	furnace		Ozone
SPF	Coke oven		Electrochemical
ORF	Other industrial furnace		Other cyanide oxidation
	Industrial boiler	J#1	other cyanide oxidation
	Utility boiler	Cene	eral oxidation (including
	Process heater		infection)
	Other reuse as fuel unit		Chlorination
	Armer rende de fact mill	7WT	
Puel	Blending	BVT	
	Fuel blending	9VT	
	reer prenaring	7 . 1	other general oxidation
Soli	dification	Chen	nical precipitation1
15	Cement or cement/silicate processes		Lime
25	Pozzolanic processes		Sodium hydroxide
3\$	Asphaltic processes		Soda ash
45	Thermoplastic techniques		Sulfide
5S	Organic polymer techniques		Other chemical precipitation
6S	Jacketing (macro-encapsulation)	~~~;	cuemicai hiecibilation
7S	Other solidification	Chro	omium reduction
			Sodium bisulfite
			Sulfur dioxide

8.22 CBI	(by capacity)	escribe the combustion chamber design parameters for each of the three largest by capacity) incinerators that are used on-site to burn the residuals identified in process block or residual treatment block flow diagram(s).								
[_]		Ch	Combustion Not Chamber Temperature (°C)		tion of erature	Residence Time In Combustion Chamber (seconds)				
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Secondary			
•	1	-								
	2	**********	·							
	3	**************************************								
	by circl	ing the app	of Solid Wast ropriate resp	onse.			-			
	Yes	•••••	• • • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • • • •	••••••				
	No	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	••••••	2			
8.23 <u>CBI</u> [_]	Complete the fare used on-si treatment block Not App	te to burn k flow diag	the residuals ram(s).	hree larges identified llution Device	t (by capacit in your proc	y) incinerates block or Types Emission Avail	residual s of os Data			
	<b>1</b>		_			<del></del>				
	2				<del></del>					
	3									
	Indicate if Office of Solid Waste survey has been submitted in lieu of response by circling the appropriate response.									
	Yes 1									
	No 2									
	Use the follows  S = Scrubber  E = Electrost  O = Other (special)	wing codes ( include typatic precipi	pe of scrubbe	the air pol	lution contro					
(_1	Mark (X) this	box if you a	ittach a cont	inuation she	eet.					

SECTION	Q	UNDEED	EXPOSIBE
SECTION	7	YUKKIK	P.XPUSURE:

Gener	-al	Inct	ruc	+ i	^_	
Gener	. a 1	11151	1 116	11	un c	•

Questions 9.03-9.25 apply only to those processes and workers involved in manufacturing or processing the listed substance. Do not include workers involved in residual waste treatment unless they are involved in this treatment process on a regular basis (i.e., exclude maintenance workers, construction workers, etc.).

[\_] Mark (X) this box if you attach a continuation sheet.

9.01 Mark (X) the appropriate column to indicate whether your company maintains records on the following data elements for hourly and salaried workers. Specify for each data element the year in which you began maintaining records and the number of years the records for that data element are maintained. (Refer to the instructions for further

Data Element	Data are Ma Hourly Workers	intained for: Salaried Workers	Year in Which Data Collection Began	Number of Years Records Are Maintained
Date of hire		X	1956	X
Age at hire	<u> </u>		1956	<del></del>
Work history of individual before employment at your facility	UK	UK	UK.	UK.
Sex		<u> </u>	1956	<del></del>
·Race	<u>X</u> .	X		*
Job titles	X	X	1956	<del>*</del>
Start date for each job title	X	X	1956	*
End date for each job title	X	X	1956	*
Work area industrial hygiene monitoring data	X	X		<b>*</b>
Personal employee monitoring data	<u>UK</u>	_UK	UK.	UK
Employee medical history	<u> </u>	_χ	1956	*
Employee smoking history	UK	ÚK.	UK	
Accident history	<u> X</u>	X	1956	<del></del>
Retirement date	X_	X	1956	<del></del>
Termination date	X	X	1956	*
Vital status of retirees	X	<u> </u>	1956	<del></del>
Cause of death data		X	1956	<del></del>

\* Becords are maintained indefinetly on all employees even if retired or deceased.

<sup>[ ]</sup> Mark (X) this box if you attach a continuation sheet.

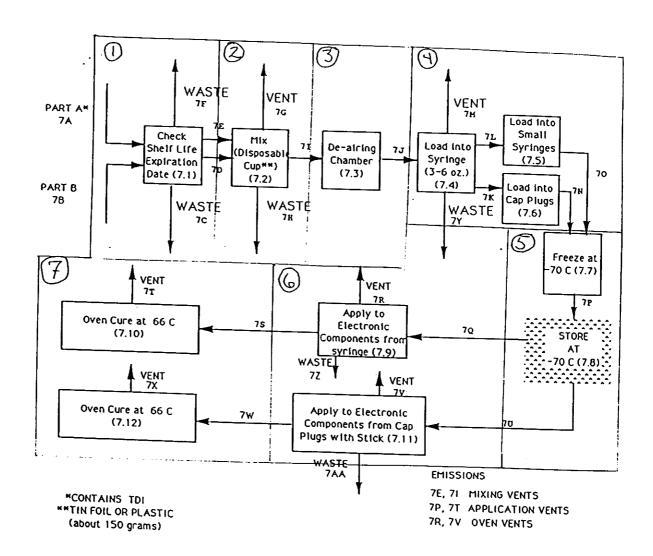
In according which	ance with th you engage.	e instructions, complete	the following ta	ible for e	ach activi
	a.	b.	с.	d.	e.
Activity		Process Category	Yearly Quantity (kg)	Total Workers	Tota Worker-H
Manufactu listed sul		Enclosed		O	
213(64 34)	os tance	Controlled Release			<u> </u>
		0pen		_0_	つ
On-site us	se as	Enclosed			0
reactant		Controlled Release	1.9	UK	37
		0pen	1.9	UK	36
On-site us		Enclosed			0
onr cac (ar		Controlled Release		_0_	O
		0pen		_0_	O
On-site prof of product	eparation	Enclosed			O
or product	3	Controlled Release		_0_	
		0pen		O	
				·	

.03 Provide a descriptive job title for each labor category at your facility tha encompasses workers who may potentially come in contact with or be exposed to listed substance.					
BI					
_1					
	Labor Category	Descriptive Job Title			
	A	PRODUCTION ASSEMBLEZ			
	В	PROCESS TECHNICIAN			
	С				
	D				
	E				
	F				
	G				
•	H				
	ī				
	J				
	<b>3</b>				

9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI

Process type ..... STAKING & BONDING (CONATITANE EN-5)



<sup>[ ]</sup> Hark (X) this box if you attach a continuation sheet.

•		
9.05 CBI	additional areas not	work area(s) shown in question 9.04 that encompass workers who in contact with or be exposed to the listed substance. Add any shown in the process block flow diagram in question 7.01 or question and complete it separately for each process type.
(_)	Process type	Staking, Bonding (Conathone EN5)
	Work Area ID	Description of Work Areas and Worker Activities
	1	Receipt and Storage
	2	Assembler mixes material
	3	Assembler places Material in De-airing Chamber
	4	Assembler loads material into surmes kappings
	5	Storage in Freezer
	6	Apply to components from syringe/capplia
• •	. 7	Assembler places / removes from over
	8	
	9	
	10	

[ ] Mark (X) this box if you attach a continuation sheet.

9.06 <u>CBI</u>	come in con	category at ye tact with or b	able for each work as our facility that end be exposed to the lis ly for each process	compasses worke sted substance.	rs who may pot Photocopy th	
[_]	Process type	<u> 57</u>	TAKING AND BON	DING (CONA	THANE EN-	<del>-5</del> )
			• • • • • • • • • • • • • • • • • • • •			
	Labor Category	Number of Workers Exposed	Mode of Exposure (e.g., direct skin contact)	Physical State of Listed Substance <sup>1</sup>	Average Length of Exposure Per Day <sup>2</sup>	Number of Days per Year Exposed
	_A_	2	SKIN/INHALATION	1 OL	A	77
	_B_	2	SKIN/INHALATION		A	76
	<del></del>					***
				•		
						-
						-
				-		
	GC = Gas ( tempe GU = Gas ( tempe	condensible a rature and pruncondensible rature and prudes fumes, va	essure) AL at ambient OL essure; IL	= Sludge or sl = Aqueous lique = Organic lique = Immiscible land (specify phate)	urry uid uid liquid uses, e.g.,	bstance at
	<sup>2</sup> Use the fol	lowing codes	to designate average	length of expo	sure per day:	
	exceedi: C = Greater	tes or less than 15 minu ng 1 hour than one hou ng 2 hours	tes, but not  E r, but not	<ul> <li>Greater than exceeding 4 h</li> <li>Greater than exceeding 8 h</li> <li>Greater than</li> </ul>	nours 4 hours, but nours	
[_]	Mark (X) this	s box if you	attach a continuatio	n sheet.		

1-1	Process type	STAKING & BONDING (CO	ONTHANE EN-5)
	Work area		2 -> 7
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m <sup>3</sup> , other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m³, other-specify)
	A	UK	UK
	B	UK	UK
	-		

80	If you monitor worke	r exposur	e to the li	sted substar	ice, compl	ete the fo	llowing table
Ī				Not 8	Sampl	ed	
_1	Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples <sup>1</sup>	Analyzed In-House (Y/N)	Number of Years Records Maintained
	Personal breathing zone	*AU	NA_	<u>NA</u>	NA_	_ NA	NA
	General work area (air)	NA	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	NA
	Vipe samples	AU_	<u>NA</u>	<u>NA</u>	_NA	NA	NA
	Adhesive patches	AU	<u>NA</u>	NA	NA_	NA	NA
···	Blood samples	<u>NA</u>	-NA	<u> </u>	NA	NA	NA
	Urine samples	<u>NA</u>	_NA	<u>AU</u>	NA	<u>NA</u>	NA
	Respiratory samples	NA	<u>NA</u>	<u>NA</u>	NA	NA	NA
	Allergy tests	_NA	-AU	AU_	NA	_ NA	
	Other (specify)						
		<u> MA</u>	NA	<u>AU</u>	<u>NA</u>	NA	NA
	Other (specify)						
		<u>NA</u>	NA	<u> NA</u>	NA	NA	<u>A</u>
	Other (specify)						
		<u>4</u> <u>4</u> <u>4</u>	<u>NA</u>	AU	<u>NA</u>	<u>NA</u>	NA
	t NA neans	Not	Applic	able			
	Use the following co	odes to de	signate who	takes the	monitorin	g samples:	
	A = Plant industria: B = Insurance carrie C = OSHA consultant D = Other (specify)	l hygienis er	st .		•		
	·						

	Sample Type  Sampling and Analytical Methodology
10	If you conduct personal and/or ambient air monitoring for the listed substance, specify the following information for each equipment type used.
]	Equipment Type Detection Limit Manufacturer Time (hr) Model Number
	Use the following codes to designate personal air monitoring equipment types:  A = Passive dosimeter  B = Detector tube  C = Charcoal filtration tube with pump  D = Other (specify)
	Use the following codes to designate ambient air monitoring equipment types:  E = Stationary monitors located within work area  F = Stationary monitors located within facility  G = Stationary monitors located at plant boundary  H = Mobile monitoring equipment (specify)  I = Other (specify)
	Use the following codes to designate detection limit units:  A = ppm B = Fibers/cubic centimeter (f/cc)

I i	Test Des	cription		(ve	Freekly, month	equency lly, yearly,	etc.
	NA				NA		
	,						
<del></del>		7.					
	-						
·				<del></del>			
		· · · · · · · · · · · · · · · · · · ·					
•			•				
						•	

ART	C ENGINEERING CONTROLS				
).12 BI	Describe the engineering co to the listed substance. I process type and work area	rnotocopy this	u use to reduce o question and comp	r eliminate wo lete it separa	rker exposure tely for each
_1	Process type	. Stak	ing & Bon	dig (Con	athane EN-5
	Engineering Controls Ventilation:	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
	Local exhaust  General dilution  Other (specify)	<u>Y</u> Y	<u> 1986</u> 1986	<u> </u>	1988
.•	Vessel emission controls Mechanical loading or	<u> </u>	NA	4 11	NA
	packaging equipment Other (specify)				

Mark	(X)	this	box	if	you	attach	а	continuation	sheet.

complete it separately for each process type and wor	reduction of worker exposus modification described, s Photocopy this question ask area.
Process type NA  Work area	
Equipment or Process Modification	Reduction in Work Exposure Per Year
<i>N4</i>	NA
• •	

ÞART -	D' PERSONAL PROT	ECTIVE AND SAFETY EQUIPMENT	
9.14 CBI			ipment that your workers wear or use te their exposure to the listed e it separately for each process type
[_]	Process type	Staking and	Bonding (Conathone EN-5)
			2-7
		Equipment Types Respirators	Wear or Use (Y/N)
		Safety goggles/glasses	<u> </u>
	. •	Face shields	<del></del>
		Coveralls	N
		Bib aprons	<u> </u>
		Chemical-resistant gloves	Y
		Other (specify)	

[\_] Mark (X) this box if you attach a continuation sheet.

9.15	respirat	ers use respirators when we type, the work areas where tors used, the average usa and the type and frequency it separately for each p	ge, whether or	ors are us	sed, the type	of
<u>CBI</u>	Process	type	+			-
	Work Area	Respirator Type	Average Usage	Fit Tested (Y/N)	Type of Fit Test	Frequency of Fit Tests (per year)
	A = Dail B = Veek C = Mont D = Once E = Othe 2Use the QL = Qua QT = Qua	cly thly	ate the type o	of fit test	:	
	<del></del>					

9.19 <u>CBI</u>	Describe all of the work eliminate worker exposure authorized workers, mark monitoring practices, proquestion and complete it	areas with warn;	ing signs, ins	sure worker de	entrance only to etection and
	Process type	Staking.	& Bonding	Cona	there FN-5
	Work area	• • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		7
	Restrict Acres	ss to Au	thorized	Worke	٠ <
	Insure Wor	ker Dete	from	Manutani	Practice
	Dorker Tr	- <u>~</u> ~;~, *	2	<u></u>	Tractice
	Personal F	2 1	=	<u> </u>	
••		DH CHUS	- doiba	new	
	Process type		rnotocopy thi		
	Process type	• • • • • • • • • • • • • • • • • • • •			
ļ	Work area	Less Than Once Per Day	1-2 Times Per Day	3-4 Times Per Day	More Than 4 Times Per Day
<u>!</u>	Work area  Housekeeping Tasks  Sweeping	Less Than	1-2 Times		
<u>!</u>	Work area	Less Than	1-2 Times		
!	Work area  Housekeeping Tasks  Sweeping	Less Than	1-2 Times		
! : ;	Work area  Housekeeping Tasks Sweeping Vacuuming	Less Than	1-2 Times		
! ! ! !	Work area  Housekeeping Tasks  Sweeping  Vacuuming  Vater flushing of floors  Other (specify)	Less Than	1-2 Times		
! ! ! !	Work area  Housekeeping Tasks  Sweeping  Vacuuming  Vater flushing of floors  Other (specify)	Less Than	1-2 Times		
! ! ! !	Work area  Housekeeping Tasks  Sweeping  Vacuuming  Vater flushing of floors  Other (specify)	Less Than	1-2 Times		
! ! ! !	Work area  Housekeeping Tasks  Sweeping  Vacuuming  Vater flushing of floors  Other (specify)	Less Than	1-2 Times		
! ! ! !	Work area  Housekeeping Tasks  Sweeping  Vacuuming  Vater flushing of floors  Other (specify)	Less Than	1-2 Times		

,9.21	l Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?	
	Routine exposure	
	Yes	
	No	1
	Emergency exposure	2
	Yes	_
	No	
		2
	If yes, where are copies of the plan maintained?	
	Routine exposure:	
	Emergency exposure:	_
		_
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.	
(	Yes	1
	No	
		•
	If yes, where are copies of the plan maintained? ENVIRONMENTAL SAFETY OFFICE  EMERGENCY RESPONSE TEAMS	_
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.	?
(	Tes 1	l
	No	
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.	
	Plant safety specialist	
	Insurance carrier	
	OSHA consultant	
	Other (specify) INDUSTIZIAL HYGIENISTS	
		_
	Mark (X) this box if you attach a continuation sheet.	

### SECTION 10 ENVIRONMENTAL RELEASE

#### General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RO.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

10.01	Where is your facility located? Circle all appropriate responses.
CBI	
[_]	Industrial area
	Urban area 2
	Residential area 3
	Agricultural area
	Rural area
	Adjacent to a park or a recreational area 6
	Within 1 mile of a navigable waterway 7
	Within 1 mile of a school, university, hospital, or nursing home facility 8
	Within 1 mile of a non-navigable waterway 9
	Other (specify)10

10.02	Specify the exact location of your facility (from central point where process unit is located) in terms of latitude and longitude or Universal Transverse Mercader (UTM) coordinates.									
	Latitude		33	16	<u>,                                    </u>					
	Longitude	•••••••	111	<u> </u>	· <u> </u>					
	UTM coordinates Zone	, North	ing	, East	ing					
10.03	If you monitor meteorological cond the following information.	litions in the vicin	ity of yo	our facili	ty, provide					
	Average annual precipitation inches/year									
	Predominant wind direction	•••••	-		<del>-</del>					
10.04	Indicate the depth to groundwater	below your facility	. Not R	log vired	<u> </u>					
	Depth to groundwater	••••••	·		meters					
10.05 CBI	For each on-site activity listed, listed substance to the environmen Y, N, and NA.)	indicate (Y/N/NA) a t. (Refer to the i	ll routin	e release	s of the definition of					
[_]	On-Site Activity	Env Air	ironmenta Vat	l Release	Land					
	Manufacturing	NA		S A	NA					
	Importing	NA	_ N	A	NA					
	Processing	Y	N	)	<u> </u>					
	Otherwise used	NA	N	A	NA					
	Product or residual storage	$\overline{N}$	-N		N					
	Disposal	NA	N	A	NA					
	Transport	NA	N	A	NA					
<u>_</u> ] H	Mark (X) this box if you attach a co	ontinuation sheet.								

0.06	Provide the following information for the lister of precision for each item. (Refer to the instan example.)	ed substance and spe cructions for furthe	ecify the level er explanation a
<u> </u>			
]	Quantity discharged to the air	0.02	kg/yr <u>+</u> U/
	Quantity discharged in wastewaters	O	kg/yr <u>+</u> <b></b>
	Quantity managed as other waste in on-site treatment, storage, or disposal units		kg/yr <u>+</u> ()
	Quantity managed as other waste in off-site treatment, storage, or disposal units	6.0	kg/yr <u>+</u> UK
•			

[\_] Mark (X) this box if you attach a continuation sheet.

10.08 CBI	of the listed substance identified in your Photocopy this question					
[_]	Process type All					
	Stream ID Code All Vent Streams	Control Technology	Percent Efficiency			
·						
	<del></del>					
	×					
			•			
		•				

PART B RELEASE TO	AIR	
CBI residual tre	n terms of a Stream ID Code as eatment block flow diagram(s), not include raw material and g., equipment leaks). Photoco	emission point source containing the listed identified in your process block or and provide a description of each point product storage vents, or fugitive emission py this question and complete it separately
Process type	· Staking B	Ponding EN-5
Point Source ID Code	0,	Scription of Emission Point Source
_7 G	Mixin	g Vent
<u> 7M</u>	Loadin	9
_7.R_	Appli	cation Vent
<u> 7 T</u>	Oven	· Vent
7 7	Applic	cation Vent
_7X_	Over	Vent
		•
	•	
	•	

 $\begin{bmatrix} -1 \end{bmatrix}$  Mark (X) this box if you attach a continuation sheet.

Mark

8

5

G

рox

if

The listed substance is not produced.

10.11	Stack Par identifie	rameters ed in questi	Identify th on 10.09 by	e stack para completing	meters for the followi	each Point	Source ID (	Code
CBI								
[ <u> </u> ]	Point Source ID Code	Stack Height(m)	Stack Inner Diameter (at outlet) (m)	Exhaust Temperature (°C)	Emission Exit Velocity (m/sec)	Building <u>Height(</u> m) <sup>1</sup>	Building Width(m) <sup>2</sup>	Vent Type
	<u> 7G</u>	15.a*	0.61	25	1a. 7	12.8	67	H
	7H	15,2*	0,61	25	12,7	12.8	67	$\mathcal{H}$
	7B_	15.2*	0,61	<u> 25</u>	12.7	<u>/a.8</u>	67	
	<u>7T</u>	15,2*	0.61	<u>a5</u>	12.7	12.8	67	
	71	15, 2 *	0.61	<u> 25 _</u>	Ja Z	12.8	67	H
	<u> 7</u> X_	15, 2*	0,61	<u>25</u>	12.7	12.8	67	
			-					
	* 7		<del></del>					
	*Incl	<u>vdes</u>	heigh	to t	the b	vildin	<del>g</del>	
	_	f attached o						
		attached or						
	<sup>3</sup> Use the	following co	des to desi	ignate vent 1	type:			
	H = Hori V = Vert							
[ <u></u> ] M	lark (X) t	his box if y	ou attach a	continuation	on sheet.			

10.12	distribution for each Point Source II	n particulate form, indicate the particle size O Code identified in question 10.09. it separately for each emission point source.
<u>BI</u>	the compact	reach emission point source.
_1	Point source ID code	No particulate em
	Size Range (microns)	Mass Fraction (% ± % precision)
	< 1	
	≥ 1 to < 10	
	≥ 10 to < 30	
	≥ 30 to < 50	
	≥ 50 to < 100	
	≥ 100 to < 500	
•	≥ 500	
		Total = 100%

10.13	types listed which are expeaced according to the specified the component. Do this for residual treatment block finot exposed to the listed specified to the second specification.	osed to the l weight perces r each proces low diagram(s substance. I	listed subset of the stype ic.  b). Do note this is	bstance a e listed dentified ot includ s a batch	nd which substance in your e equipme or inter	are in se passing process b nt types mittently	rvice through lock or that are operated
<u>CBI</u>	process, give an overall per exposed to the listed subst for each process type.	ercentage of tance. Photo	time per copy this	year tha s questio	t the pro n and com	cess type plete it	is separately
[_]	Process type	<del>*</del>					
	Percentage of time per year type						rocess
					Service by ce in Pro		
		Less	or Brote	a odostan	cc III IIO	cess stre	Greater
	Equipment Type	than 5%	<u>5-10%</u>	11-25%	<u>26-75%</u>	76-99%	than 99%
•	Pump seals <sup>1</sup>						
	Packed	<del></del>					
	Mechanical						
	Double mechanical <sup>2</sup>						
	Compressor seals <sup>1</sup>						
	Flanges						
	Valves						
	Gas <sup>3</sup>				_		
	Liquid						
	Pressure relief devices (Gas or vapor only)						
	Sample connections						
	Gas						
	Liquid		_				
	Open-ended lines <sup>5</sup> (e.g., purge, vent)						
	Gas			-			
*'	Liquid not applical	ole—					
	List the number of pump an compressors		seals, n	ather th	an the nu	mber of p	umps or
0.13	continued on next page						

detect failure of a "B" and/or an "S  tions existing in t all pressure rel ol devices  closed during nor tions  re Relief Devices re relief devices s in service are c "None" under colum a. Number of	the valve during nor lief devices in servion mal operation that we with Controls Comidentified in 10.13 controlled. If a present	and/or equipped with barrier fluid systemal operation ce, including those ould be used during plete the following to indicate which pressure relief device	table for those
t all pressure rel ol devices  closed during nor tions  re Relief Devices re relief devices s in service are c "None" under colum a. Number of	with Controls Comidentified in 10.13 controlled. If a present c.	ce, including those ould be used during plete the following to indicate which pressure relief device	table for those
t all pressure rel ol devices  closed during nor tions  re Relief Devices re relief devices s in service are c "None" under colum a. Number of	with Controls Comidentified in 10.13 controlled. If a present c.	ce, including those ould be used during plete the following to indicate which pressure relief device	table for those
re Relief Devices re relief devices s in service are c "None" under colum a. Number of	with Controls Coming identified in 10.13 controlled. If a present c.	plete the following to indicate which pr ssure relief device	table for those
re reller devices s in service are c "None" under colum a. Number of	identified in 10.13 controlled. If a preson c.	to indicate which pr ssure relief device	occurs malias
Number of	b.		•
re Relief Devices	Percent Chemical in Vessel	Control Device	d. Estimated Control Efficiency
means no	t applicable		
o the table in que entitled "Number	estion 10.13 and reco of Components in Ser	rd the persont range	e given under the ent of Listed
hrare arece ander	normal operating con	ditions. The EPA ac	ecione a control
	o the table in queentitled "Number ce" (e.g., <5%, 5 assigns a control pture discs under ncy of 98 percent ons	o the table in question 10.13 and reconstitled "Number of Components in Serce" (e.g., <5%, 5-10%, 11-25%, etc.)  assigns a control efficiency of 100 popure discs under normal operating connex of 98 percent for emissions routed ons	assigns a control efficiency of 100 percent for equipment pture discs under normal operating conditions. The EPA as acy of 98 percent for emissions routed to a flare under no

10.15	Equipment Leak Detection place, complete the procedures. Photocotype.	TOTTORIDG LYDIG LO	GATGING THA	CO 1050 dae		
CBI						
[_]	Process type	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			·····
	Equipment Tune	Leak Detection Concentration (ppm or mg/m³) Measured at Inches	Detection	Frequency of Leak Detection	Initiated (days after	
	Equipment Type	from Source	<u>Device</u>	(per year)	detection)	initiated)
	Pump seals					
	Packed					
	Mechanical					
	Double mechanical					
	Compressor seals	4				
•	Flanges					
	Valves					
	Gas					
	Liquid					
	Pressure relief devices (gas or vapor only)					
	Sample connections					
	Gas					
	Liquid					
	Open-ended lines			<del></del>		
	Gas					
	Liquid					
*	" " means	ga ton	licable			
	<sup>1</sup> Use the following co POVA = Portable orga FPM = Fixed point mo O = Other (specify)	des to designate d	etection de		·	
<u>_</u> ] M	ark (X) this box if y	ou attach a contin	uation shee	t.		

PART	E	NON-ROUTINE	BRIFACES
I UVI I	-	MOMENTAL	

10.23	Indicate the date and time when the release occurred and when the release ce was stopped. If there were more than six releases, attach a continuation sh	ased or eet and
-------	--	--------------------

Release	Date Started	Time (am/pm)	Date Stopped	Time (am/pm)
1	*			(c)
2				
3				
4				
5				
6	-			

# 10.24 Specify the weather conditions at the time of each release. Not Required

-,					
Release	Wind Speed (km/hr)	Wind Direction	Humidity (%)	Temperature (°C)	Precipitation(Y/N)
1					
2		_			
3					
4					
5					
6					
v					

¥	N· . //	means	not	applicable
•		Means	110	-4P , c-2-

<sup>[ ]</sup> Mark (X) this box if you attach a continuation sheet.

## **MOTOROLA INC.**

### Government Electronics Group

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A791 - Gloria Gowan, SCC-160

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